GRADE 5 · Fractions

Smarter Balanced Assessment Consortium

Student Learning Objective: Students model with fractions, identify fractional equations and expressions to represent a situation, and utilize mathematical operations to solve fractional expressions.

ABOVE STANDARD

Students are working to solidify the following skills:	*Educator-recommended next steps and Digital Library resources*
• Multiply and divide with fractions and mixed numbers greater than 1. • Interpret and create a variety of visual models to solve word problems.	Instructional next steps include helping students to: • Apply knowledge of multiplying and dividing fractions to real-world scenarios (e.g., money). Digital Library example: Illustrative Mathematics Multiplying Fractions Model • Extend their application of adding, subtracting, multiplying, and dividing fractions to percentages. Digital Library example: Stuffed with Pizza • Utilize visual models as tools for solving problems involving multiplying fractions. Digital Library example: Multiply Fractions Conceptually

AT/NEAR STANDARD

Students are working to solidify the following skills:	*Educator-recommended next steps and Digital Library resources*
• Use expressions or equations with equivalent fractions to add or subtract fractions or mixed numbers with unlike denominators. • Understand numerators, denominators, and the part to whole relationships present in all fractions	Instructional next steps include helping students to: • Elicit, confront, and resolve a common misconception about adding fractions. Digital Library example: Using Models to Critique Reasoning When Adding Fractions • Develop a conceptual understanding of adding and subtracting fractions. Digital Library example: Adding and Subtracting Fractions • Determine which operations to use when solving problems with fractions. Digital Library example: Inductive Set for Adding, Subtracting, Multiplying and Dividing Fractions • Practice fraction operations including adding, subtracting, multiplying and dividing in a variety of ways.

BELOW STANDARD

Students are working to solidify the following skills:	*Educator-recommended next steps and Digital Library resources*
• Identify a model that represents a multiplication expression of a whole number by a fraction. • Identify a division expression that is equivalent to a given fraction. • Make reasonable estimates using familiar fractions totaling less than 1.	Instructional next steps include, helping students to: • Apply whole-to-part relationships in order to compare fractions. Digital Library example: The Great Fraction Hunt • Develop a conceptual understanding of fractions. Digital Library example: Daily Discourse Through Fractions • Develop whole-to-part relationships and extend to solving problems with a variety of operations. Digital Library example: Multiplying and Dividing Fractions – A Unit for Fifth Grade

UJ\

Digital Library resources are meant to be used in conjunction with an educator's curriculum, and to serve as a jumping-off point for instruction. Educators are encouraged to consider their particular classroom context and culture when selecting resources, and to adapt the resources to best fit their students' needs.